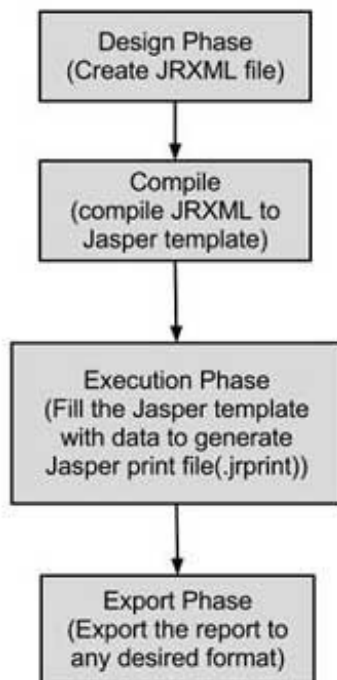


# JASPER REPORT - LIFE CYCLE

[http://www.tutorialspoint.com/jasper\\_reports/jasper\\_report\\_life\\_cycle.htm](http://www.tutorialspoint.com/jasper_reports/jasper_report_life_cycle.htm)

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The main purpose of JasperReports is to create page oriented, ready to print documents in a simple and flexible manner. The following flow chart depicts a typical work flow while creating reports.



As in the image the life cycle has following distinct phases

1. [Designing the report](#) In this step we create the JRXML file, which is an XML document that contains the definition of the report layout. We can use any text editor or [iReportDesigner](#) to manually create it. If iReportDesigner is used the layout is designed in a visual way, hence real structure of the JRXML can be ignored.
2. [Compiling the report](#) In this step JRXML is compiled in a binary object called a Jasper file(\*.jasper). This compilation is done for performance reasons. Jasper files are what you need to ship with your application in order to run the reports.
3. [Executing the report\(Filling data into the report\)](#) In this step data from the application is filled in the compiled report. The class `net.sf.jasperreports.engine.JasperFillManager` provides necessary functions to fill the data in the reports. A Jasper print file (\*.jrprint) is created, which can be used to either print or export the report.
4. [Exporting the report to desired format](#) In this step we can export the Jasper print file created in the previous step to any format using `JasperExportManager`. As Jasper provides various forms of exports, hence with the same input we can create multiple representations of the data.

A detailed overview of each of the above steps will be explained in the subsequent chapters.